

Abstract of the Disclosure

The optical performance monitoring apparatus includes a first optical distributor for distributing a WDM optical signal branched from an optical transmission line, a plurality of wavelength selectors, each for selecting a predetermined wavelength optical signal from the optical signal distributed, a plurality of first optical detectors, each for detecting power of the predetermined wavelength optical signal for a corresponding one of channels selected by the wavelength selectors; a second optical detector for detecting total power of the optical signal, a plurality of second optical distributors, each for transmitting the optical signal outputted from the first optical distributor to the corresponding one of the wavelength selectors and transmitting the predetermined wavelength optical signal selected by the corresponding one of the wavelength selectors to the corresponding one of the first detectors, a selector for selecting one of the powers of the optical signals detected by the first optical detectors and the second optical detector, a signal converter for converting an analog value of the power applied from the selector to a digital value, and a signal processor for measuring the power for each channel of the WDM optical signal, a total ASE noise power, and an optical signal-to-noise ratio for each channel from the digital value.